

Exhibit 1

# WEBSTER'S NEW WORLD™

## DICTIONARY — of — COMPUTER TERMS

EIGHTH EDITION

*The Best Computer Dictionary in Print*

Completely revised and updated

Contains extensive Internet coverage

More than 4,000 entries, terms, and acronyms

Bryan Pfaffenberger

THE NAME YOU TRUST

# Dedication

*For Suzanne, always*

Webster's New World™ Dictionary of Computer Terms,  
8th Edition

Copyright © 2000 by  
IDG Books Worldwide, Inc.  
An International Data Group Company  
919 E. Hillsdale Blvd.  
Suite 400  
Foster City, CA 94404

All rights reserved including the right of reproduction in whole  
or in part in any form.

For general information on IDG Books Worldwide's books in  
the U.S., please call our Consumer Customer Service depart-  
ment at 1-800-762-2974. For reseller information, including  
discounts, bulk sales, customized editions, and premium sales,  
please call our Reseller Customer Service department at  
1-800-434-3422.

A Webster's New World™ Book

WEBSTER'S NEW WORLD DICTIONARY is a registered  
trademark of IDG Books Worldwide, Inc.

Library of Congress Catalog Number: 98-68180

ISBN: 0-02-863777-1

Manufactured in the United States of America

1 2 3 4 5 6 7 . 00 1 02 03 04

## share

A file server utility for AppleTalk networks. It transforms any Macintosh on the network into a file server; the server's hard disk icon appears on each user's desktop.

A small- to medium-sized computer program that performs a specific function, such as emulating a calculator. 2. In a Web browser, a program embedded in a Web document that, when loaded, is executed by the browser. Both of the leading browsers, Netscape Communicator and Microsoft Internet Explorer, can execute Java applets. See *Java applet* and *Java*.

**AppleTalk** A local area network (LAN) standard developed by Apple. AppleTalk can link as many as 32 Macintosh computers, IBM PC-compatible computers, and peripheral devices. Every Macintosh computer has an AppleTalk port; the only hardware required for an AppleTalk network is a set of LocalTalk connectors and ordinary telephone cables (called twisted-pair cable). AppleTalk networks are simple and inexpensive but quite slow; they are capable of transmitting only up to 230 Kbps. EtherTalk, in contrast, is capable of speeds of up to 10 million bps. See *EtherTalk*.

**Application** A program that enables you to do something with the computer, such as writing or accounting (as opposed to utilities, programs that help you maintain the computer).

**Application Configuration Access Protocol (ACAP)** A proposed Internet standard that transfers crucial user configuration settings (including address books, bookmarks, and options) to an Internet-accessible file. Because these settings are stored on the network instead of the user's computer, they are accessible no matter which computer is being used. ACAP potentially benefits anyone who accesses the Internet from multiple computers.

**Application control menu** See *control menu*.

**Application development system** A coordinated set of programming development tools, typically including a full-screen editor, a programming language with a compiler, linker, and debugger.

## application shortcut key 33

and an extensive library of ready-to-use program modules. The use of an application development system lets experienced users develop a standalone application more easily than writing a program using a language such as C++ or COBOL.

**application heap** In a Macintosh, the base memory, the area of memory set aside for user programs.

**application icon** In Microsoft Windows 95/98, an onscreen graphic representation of a minimized program. The icon appears on the taskbar to remind you that the application is still present in memory. Double-click the application icon to switch to that program.

**application layer** In the Open System Interconnection (OSI) reference model of computer network architecture, the first or topmost of seven layers, in which the data is presented to the user. At this layer, protocols are needed to ensure that products made by different manufacturers can work together. For example, an e-mail program should use the same protocols for sending and receiving e-mail. When the data is ready to be sent to the network, it is passed down the protocol stack to the next layer, the presentation layer.

**application-level encryption** In a computer network, the implementation of encryption by individual applications rather than at the operating system or network level. Web browsers typically implement encryption at this level.

**application program** See *application*.

**application program interface (API)** 1. A set of standards or conventions by which programs can call specific operating system or network services. 2. In Web servers, the standards or conventions that enable a hyperlink to originate a call to a program that is external to the server. See *CGI*, *ISAPI*, and *NSAPI*.

**application shortcut key** In Microsoft Windows, a shortcut key that is assigned to launch or bring an application to the foreground. Application shortcut keys are also available in applications such as Emacs, X-Tools, and PC Tools Desktop to launch and switch among programs.

### 388 operand

**operand** The argument that is appended to an operator, such as a spreadsheet program's built-in function. For example, in the Excel expression AVERAGE(D10:D24), the cell range D10 to D24 is the operand of the AVERAGE function.

**operating environment** The total context in which applications function, including the operating system (OS) and the shell.

**operating system (OS)** A master control program that manages the computer's internal functions, such as accepting keyboard input, and that provides a means to control the computer's operations and file system.

**operating voltage** The electrical voltage at which a microprocessor operates. Most microprocessors have operating voltages of 5 volts—a mostly arbitrary specification decided upon when the transistor was invented—but some chips run at 3.3 volts to save electricity (a real concern in portable computers) and to reduce heat output.

**operator** In programming, a code name or symbol that is used to describe a command or function, such as multiplying or dividing.

**optical character recognition** See OCR.

**optical disk** A large-capacity data storage medium for computers on which information is stored at extremely high density in the form of tiny pits. The presence or absence of pits is read by a tightly focused laser beam. CD-ROMs and CD-ROM drives offer an increasingly economical medium for reading data and programs. Write-once, read-many (WORM) drives enable organizations to create their own huge, in-house libraries. Erasable optical disk drives offer more storage than hard disks, and the CDs are removable. However, they are still more expensive and much slower than hard disks. See *interactive multimedia*.

**optical fiber** See *fiber optics*.

**optical mouse** A mouse that does not require a cord like a mechanical mouse does, but that must be used on a mouse pad. An optical mouse shines a beam of light onto a sensor in the mouse pad, which conveys the mouse's movements to the computer.